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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/250,466	02/16/1999	ILSE CHUDOBA	RPE-27	2088
7590 04/21/2004			EXAMINER	
JOHN B HARDAWAY III HARDAWAY LAW FIRM P O BOX 10107			MORAN, MARJORIE A	
			ART UNIT	PAPER NUMBER
FEDERAL STATION GREENVILLE, SC 296030107			1631	
270030107			DATE MAILED: 04/21/2004	,

Please find below and/or attached an Office communication concerning this application or proceeding.



Office Action Summary

Application No.	Applicant(s)	
09/250,466	CHUDOBA ET AL.	
Examiner	Art Unit	
Marjorie A. Moran	1631	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address -- Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE $\underline{3}$ MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed

after SIX (6) MONTHS from the mailing date of this communication. If the period for reply specified above is less than thirty (30) days, a reply within the lift NO period for reply is specified above, the maximum statutory period will apply an Failure to reply within the set or extended period for reply will, by statute, cause the Any reply received by the Office later than three months after the mailing date of this earned patent term adjustment. See 37 CFR 1.704(b).	id will expire SIX (6) MONTHS from the mailing date of this communication. application to become ABANDONED (35 U.S.C. § 133).				
Status					
1) Responsive to communication(s) filed on 16 January 2	<u>004</u> .				
2a) ☐ This action is FINAL . 2b) ☐ This action is					
3) Since this application is in condition for allowance exce	ept for formal matters, prosecution as to the merits is				
closed in accordance with the practice under Ex parte	<i>Quayle</i> , 1935 C.D. 11, 453 O.G. 213.				
Disposition of Claims					
4) Claim(s) 31-54 is/are pending in the application.					
4a) Of the above claim(s) is/are withdrawn from	consideration.				
5) Claim(s) is/are allowed.					
6)⊠ Claim(s) <u>31-54</u> is/are rejected.					
7) Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction and/or election	n requirement.				
Application Papers					
9) The specification is objected to by the Examiner.					
10) The drawing(s) filed on is/are: a) accepted or	•				
Applicant may not request that any objection to the drawing(s	• •				
Replacement drawing sheet(s) including the correction is requ					
11)☐ The oath or declaration is objected to by the Examiner.	Note the attached Office Action or form PTO-152.				
Priority under 35 U.S.C. § 119					
12) 🖾 Acknowledgment is made of a claim for foreign priority u	under 35 U.S.C. § 119(a)-(d) or (f).				
a)⊠ All b)□ Some * c)□ None of:					
1. Certified copies of the priority documents have been received.					
2. Certified copies of the priority documents have been received in Application No					
3. Copies of the certified copies of the priority documents have been received in this National Stage					
application from the International Bureau (PCT R	· //				
* See the attached detailed Office action for a list of the ce	rtified copies not received.				
Attachment(s)					
1) Notice of References Cited (PTO-892)	4) Interview Summary (PTO-413)				
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Date				
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	5) Notice of Informal Patent Application (PTO-152) 6) Other:				

U.S. Patent and Trademark Office PTOL-326 (Rev. 1-04) Application/Control Number: 09/250,466

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The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action. All objections and rejections not reiterated below are hereby withdrawn in view of the amendment filed 1/16/04.

Claim Rejections - 35 USC § 112, 2nd paragraph

Claims 47-54 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 47 recites the term "said probes" in line 4. It is unclear if the antecedent basis for this term is intended to be the "calibrating probes" of line 2 or different probes, therefore claim 47 is indefinite. Applicant has neither amended the claims nor presented arguments to overcome this rejection, therefore the rejection is maintained. This rejection may be overcome by inserting --calibrating-- before "probes" in line 4, is such is consistent with applicant's intent.

Claim 48 recites a step of correcting positional transformations of bondings by comparison of "the position of the labels" of calibrating probes". It is unclear if applicant intends to compare positional transformation of bondings --to-- the positions of calibrating probes' labels, or actually intends to compare the positions of labels of calibrating probes to each other (as indicated by the instant claim language). It is noted that a comparison of calibrating probes' labels to each other is not supported by the instant specification or claims; however, as it is not clear what limitation applicant intends, the claim is rejected herein only for indefiniteness.

Claim Rejections - 35 USC § 102

Claims 31-44 are again rejected under 35 U.S.C. 102(e) as being anticipated by GARINI et al. (US 5,817,462, filed 4/22/1996).

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Applicant's arguments filed 1/16/04 have been fully considered but they are not persuasive. In response to applicant's argument that the references fail to show certain features of applicant's invention, it is noted that the features upon which applicant relies (i.e., detection of intra-chromosomal arrangement, lack of gaps in chromosomal "painting", a number of color bands that is 2 to 4 times higher than the number of probes; i.e. use of overlapping combinatorially labeled probes which result in overlapping (new) color bands) are not recited in the rejected claim(s). Although the claims are interpreted in light of the specification, limitations from the specification are not read into the claims. See *In re Van Geuns*, 988 F.2d 1181, 26 USPQ2d 1057 (Fed. Cir. 1993).

As GARINI teaches all of the method steps recited in the claims, the examiner maintains that GARINI anticipates the claims, as previously set forth, therefore the rejection is maintained.

Claims 31-43 and 55 are rejected under 35 U.S.C. 102(e) as being anticipated by MIRZABEKOV et al. (US 6,458,584, filed Dec. 23, 1996).

Claims 31-35 and 55 are rejected under 35 U.S.C. 102(b) as being anticipated by SHALON et al. (Genome Research (1996), volume 6 (7), pp. 639-645).

Applicant's arguments filed 1/16/04 have been fully considered but they are not persuasive. As applicant has presented arguments for these rejections simultaneously, the arguments will be addressed in the same manner. In response to the argument that the claimed method can be performed in situ and does not require isolation of the biomolecules prior to labeling, it is noted that (a) the claims do not recite an limitations with regard to in situ labeling, and (b) the claims recite open claim language (comprising) and therefore may encompass steps other than those specifically recited. As MIRZABEKOV and SHALON do teach at least all the

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claimed method steps, the examiner maintains that both MIRZABEKOV and SHALON anticipate the claims, therefore the rejection is maintained.

Claim Rejections - 35 USC § 103

Claims 31-46 are rejected under 35 U.S.C. 103(a) as being unpatentable over GARINI et al. (US 5,817,462) in view of CABIB et al. (US 5,784,162).

Applicant's arguments filed 1/16/04 have been fully considered but they are not persuasive. Applicant merely argues that CABIB Does not remedy the argued deficiencies of GARINI. In response, the examiner maintains that GARINI teaches all the limitations of claims 31-43, as set forth above, and therefore also maintains that GARINI and CABIB make obvious claims 31-46.

Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Marjorie A. Moran whose telephone number is (703) 305-2363. The examiner can normally be reached on Monday to Friday, 7:30 am to 4 pm EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Woodward can be reached on (703) 308-4028. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Marjorie A. Moran
Primary Examiner
Art Unit 1631

Jayou G. Journal

4/5/04

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